

In the Specification:

Please insert at Page 1, line 2, the following paragraph:

RELATED APPLICATIONS

This application is a National Phase Application of PCT Patent Application No. PCT/IL2004/001190 having International Filing Date of December 30, 2004, which claims the benefit of Israel Patent Application No. 159651 filed on December 30, 2003. The contents of the above Applications are all incorporated herein by reference.

Please amend the paragraph beginning at Page 1, line 22 and ending at line 27:

According to one broad aspect of the present invention, there is provided a method of measuring ~~the~~ a force applied to a body by a first member to a second member via a connecting body, comprising:, comprising: transmitting a cyclically-repeating acoustical wave through a transmission channel in said connecting body from a first location thereon to a second location thereon; measuring the transit time of said acoustical wave through said transmission channel from said first location to said second location; and utilizing said measured transit time to produce a measurement of said force.

Please amend the paragraph beginning at Page 2, line 1 and ending at line 7

In the preferred embodiment of the invention described below, ~~the body is a connecting body connecting a first member to a second member. More particularly, the connecting body is a fastening plate which fastens the first member to the second member, the two members being rotary members fastened for rotation together about a common axis by the fastening plate, such that the force measured is the torque applied by the first rotary member to the second rotary member, and which is strained by the force applied to the fastening plate such that the measured transit time of the cyclically-~~

~~repeating acoustical wave through the transmission channel represents a measurement of the strain, and thereby a measurement of the force applied to the fastening plate.~~

Please delete the paragraph beginning at Page 2, line 20 and ending at line 27, and replace it with the following paragraph:

~~According to a further important feature, the torque sensor plate is also fixed to the other one of the shafts at a third fixation point, the third fixation point being on the tangential line but on the opposite side of the first fixation point as the second fixation point, and being equally spaced from the first fixation point as the second fixation point such as to produce, between the first and third fixation points, another section of the torque sensor plate which is deformed in the opposite sense as the first mentioned section, during the rotation of the drive shaft, the latter deformation also being measured and utilized to produce a measurement of the torque.~~

According to a further aspect of the present invention, there is provided apparatus for measuring a force applied by a first member to a second member via a connecting body, comprising: a transmitter at a first location on the connecting body for transmitting a cyclically-repeating acoustical wave through a transmission channel in the connecting body to a second location thereon; a receiver at the second location on the connecting body for receiving the cyclically-repeating acoustical wave; and an electrical system for measuring the transit time of the cyclically-repeating acoustical wave through the transmission channel from the first location to the second location and for utilizing the measured transit time to produce a measurement of the force.

Please amend the paragraph beginning at Page 11, line 27 and ending at Page 12 line 10 as follows:

Although the invention has been described in conjunction with specific embodiments thereof, it is evident that many alternatives, modifications and variations will be apparent to those skilled in the art. For example, the invention may be implemented in methods and apparatus for sensing or measuring other forces, e.g., weight or the like, and may sense the force applied to other forms of connecting members, such as bolts or the

like. Accordingly, it is intended to embrace all such alternatives, modifications and variations that fall within the spirit and broad scope of the appended claims. All publications, patents, patent applications and sequences identified by their accession numbers mentioned in this specification are herein incorporated in their entirety by reference into the specification, to the same extent as if each individual publication, patent, patent application or sequence identified by their accession number was specifically and individually indicated to be incorporated herein by reference. In addition, citation or identification of any reference in this application shall not be construed as an admission that such reference is available as prior art to the present invention.